## IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with <u>underlining</u> and deleted text with <u>strikethrough</u>. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please AMEND claims 1-6, 8-11, 13, 15, 17, 19-21, 24, 26-31, 35-37, 39, 41, 43, 45, 47-49, 63, 64, 80-82, 87, 89-92, 96, 97, 100, 105 and 108 in accordance with the following:

- 1. (Currently Amended) A display apparatus capable of being connected to an external storage medium disposed external to the display apparatus, the display apparatus comprising:
- a receiving processor that receives <u>at least one of</u> a digital video signal <u>and/orand</u> an audio signal;
- a controller that, if a user commands storage of the received digital video signal and/orand audio signal, stores the received digital video signal and/orand audio signal in the external storage medium; and
- a port disposed on the display apparatus, through which the received digital video signal and/orand audio signal are transmitted from the display apparatus to the external storage medium,

wherein the controller is connected to the external storage through the port.

- 2. (Currently Amended) The display apparatus of claim 1, wherein the controller, according to a request from the user and when the received digital video signal and/orand audio signal are stored in the external storage medium, determines whether the received digital video signal and/orand audio signal is to be output through the port.
- 3. (Currently Amended) The display apparatus of claim 1, wherein the receiving processor receives the digital video signal and/orand the audio signal in the form of a digital television broadcast signal.
- 4.( Currently Amended) The display apparatus of claim 3, wherein, when the received digital video signal and/orand audio signal is output in real time through the port, the controller controls the storage in the external storage medium.

- 5. (Currently Amended) The display apparatus of claim 4, wherein, when the digital video signal and/orand audio signal are reproduced from the external storage medium, the controller displays the reproduced video signal and the received digital video signal output in real time together through the port in a Picture-In-Picture format or in a Picture-By-Picture format.
- 6. (Currently Amended) The display apparatus of claim 1, wherein if an input of the user requires control of the external storage medium, the controller outputs management information through the port, and uses the management information to manage the storage or reproduction of the received digital video signal and/orand audio signal with respect to the external storage medium.
- 7. (Previously Amended) The display apparatus of claim 3, wherein the output unit comprises:
  - a display unit to display the received digital video signal; and
  - a speaker to output the received audio signal.
- 8. (Currently Amended) The display apparatus of claim 7, wherein the management information for stored video signal and/orand the audio signal stored in the external storage medium is displayed in an on-screen display format on the display unit.
- 9. (Currently Amended) The display apparatus of claim 7, wherein the management information for stored video signal and/orand the audio signal stored in the external storage medium is output as an audio signal through the speaker.
- 10. (Currently Amended) The display apparatus of claim 8, wherein the management information comprises time information corresponding to a storage capacity of the external storage medium, and a list including the stored digital video signal and/orand audio signal and additional video signals and/orand audio signals stored in the external storage medium.
- 11. (Currently Amended) The display apparatus of claim 8, wherein the reproduced video signal and/orand the audio signal are a selected video signal and/orand an audio signal selected from a plurality of reproducible video signals and/orand audio signals stored in the external storage medium and which is selected by a user with reference to the management information.
  - 12. (Previously Amended) The display apparatus of claim 1, wherein, when an input

of the user requires control of the external storage medium, the controller outputs through the output unit information that the user can input as a storage request or a reproduction request.

13. (Currently Amended) A display apparatus capable of being connected to an external storage medium, the apparatus comprising:

a receiving processor to receive <u>at least one of</u> a digital video signal <u>and/orand</u> an audio signal;

a controller that forms a virtual file system for the external storage medium, wherein, if a user requires storage of the received digital video signal and/orand audio signal, the controller stores the received digital video signal and/orand audio signal received through the receiving processor in the external storage medium in real time with reference to information generated on the basis of the formed virtual file system, and

if the user requires reproduction of the digital video signal and/orand audio signal stored in the external storage medium, the controller reproduces the stored video signal and/orand an audio signal from the external storage medium with reference to the information generated on the basis of the virtual file system; and

an output unit, to output the reproduced video signal and/orand audio signal, wherein the controller is connected to the external storage medium through a port.

- 14. (Previously Amended) The display apparatus of claim 13, wherein the controller downloads a file system stored in the external storage medium and uses the downloaded file system to form the virtual file system.
- 15. (Currently Amended) The display apparatus of claim 13, wherein the controller controls the storage or the reproduction to output the digital video signal and/orand audio signal received through the receiving processor to the output unit in real time.
- 16. (Original) The display apparatus of claim 13, wherein the information generated on the basis of the virtual file system comprises management information for the external storage medium.
- 17. (Currently Amended) The display apparatus of claim 16, wherein the management information comprises time information corresponding to a storage capacity of the external storage medium, and a list including the stored video signal and/orand the audio signal and additional video and/orand audio signals stored in the external storage medium.

- 18. (Original) The display apparatus of claim 17, wherein the controller generates the management information so that the management information is output in an on-screen display format through the output unit.
- 19. (Currently Amended) The display apparatus of claim 13, wherein, when the video signal and/orand the audio signal are reproduced from the external storage medium, the controller displays the video signal reproduced from the external storage medium and the received video signal together using the output unit in a Picture-In-Picture format or in a Picture-By-Picture format.
- 20. (Currently Amended) A display apparatus connected with an external storage medium, the apparatus comprising:
- a receiving processor that receives at least one of a video signal and/orand an audio signal;

a compression and decompression unit that

if a user requires storing of the received digital video signal and/orand audio signal, is set to a compression mode, and compresses the video signal and/orand the audio signal received from the receiving processor, and

if the user requires reproduction of the digital video signal and/orand audio signal stored in the external storage medium, is set to a decompression mode, and restores the video signal and/orand the audio signal received from an external storage medium;

an output unit to output the reproduced digital video signal and/orand audio signal; and a controller that

if the user requires the storage, controls the compression and decompression unit in the compression mode and stores the compressed digital video signal and/orand audio signal compressed by the compression and decompression unit in the external storage medium in real time, and

if the user requires the reproduction, outputs the digital video signal and/orand audio signal from the external storage medium to the output unit through the compression and decompression unit.

21. (Currently Amended) The display apparatus of claim 20, wherein the controller forms a virtual file system for the external storage medium, and controls the storage or reproduction of the video and/orand audio signals with respect to the external storage medium using the virtual file system.

- 22. (Previously Amended) The display apparatus of claim 21, wherein the controller downloads a file system stored in the external storage medium and forms the virtual file system using the downloaded file system.
- 23. (Original) The display apparatus of claim 21, wherein the controller forms the virtual file system if an input of the user requires control of the external storage medium.
- 24. (Currently Amended) The display apparatus of claim 20, wherein the controller generates management information for managing the stored video signal and/orand the audio signal in the external storage medium using the virtual file system, and outputs the management information to the output unit.
- 25. (Original) The display apparatus of claim 24, wherein the controller generates the management information so that the management information is displayed in an on-screen display format on the output unit.
- 26.( Currently Amended) The display apparatus of claim 24, wherein the management information comprises time information corresponding to a storage capacity of the external storage medium, and a list including the stored digital video signal and/orand audio signal and additional video and/orand audio signals stored in the external storage medium.
- 27. (Currently Amended) The display apparatus of claim 20, wherein, when the received video signal and audio signal are output through the output unit in real time, the controller controls the storage or reproduction of the received video signal and/orand the audio signal with respect to the external storage medium.
- 28. (Currently Amended) The display apparatus of claim 27, wherein, when the video signal and/orand the audio signal are reproduced from the external storage medium, the controller displays the video signal restored from the compression and decompression unit and the received video signal together on the output unit in a Picture-In-Picture format or in a Picture-By-Picture format.
- 29. (Currently Amended) The display apparatus of claim 20, wherein, according to a request of the user and when the received digital video signal and/orand audio signal are stored in the external storage medium, the controller determines whether the received video signal and/orand audio signal is to be output using the output unit.

30. (Currently Amended) A method of operating a display apparatus configured to be capable of being directly-connected to an external storage medium disposed external to the display apparatus, the method comprising:

receiving <u>at least one of</u> a digital video signal <del>and/or</del> and an audio signal in the display apparatus;

transmitting the received digital video signal and/orand audio signal to the external storage medium disposed external to the display apparatus; and

storing the digital video signal and/orand audio signal in the external storage medium, wherein the display apparatus is connected to the external storage medium through a port.

31. (Currently Amended) The method of claim 30, further comprising: forming a virtual file system for the external storage medium; generating management information for the external storage medium using the virtual file

providing the generated management information to the user before the user requires the storage or the reproduction of the received digital video signal and/orand audio signal.

system; and

- 32. (Original) The method of claim 31, wherein the forming the virtual file system is performed if an input of the user requires control of the external storage medium by the display apparatus.
- 33. (Previously Amended) The method of claim 32, wherein the virtual file system is formed by downloading a file system stored in the external storage medium to the display apparatus, and forming the virtual file system using the downloaded file system.
- 34. (Original) The method of claim 31, further comprising outputting the management information in an on-screen display format.
- 35.( Currently Amended) The method of claim 34, wherein the reading and reproducing comprises receiving a user selection indicating that the user requires reproduction of one digital video signal and/orand audio signal selected from among a plurality of reproducible video signals and/orand audio signals stored in the external storage medium with reference to the management information output in the on-screen display format.

- 36. (Currently Amended) The method of claim 31, wherein the management information comprises time information corresponding to a storage capacity of the external storage medium, and a list including the received digital video signal and/orand audio signal and additional digital video signal and/orand audio signals stored in the external storage medium.
- 37. (Currently Amended) The method of claim 30, wherein further comprising outputting the received digital video signal and/orand audio signal in real time through the display apparatus during the storing and/orand reading and reproducing the received video and/orand audio signals with respect to the external storage medium.
- 38. (Original) The method of claim 37, wherein the reproduction is performed so that the received video signal being output in real time and the video signal reproduced from the external storage medium are displayed together in a Picture-In-Picture format or in a Picture-By-Picture format.
- 39. (Currently Amended) The method of claim 30, wherein, according to a request from the user and when the received digital video signal and/orand the audio signal are stored, it is determined whether the received digital video signal and/orand audio signal are to be output through the display unit,.
- 40. (Original) The method of claim 31, wherein the providing the generated management information comprising providing information required by the user for use by the user in controlling the external storage medium.
- 41. (Currently Amended) A method of operating a display apparatus connected with an external storage medium disposed external to the display apparatus, the method comprising:

receiving at least one of a digital video signal and/orand audio signal at the display apparatus;

compressing the received video signal and/orand the audio signal, if a user requires storage of the received digital video signal and/orand the audio signal;

storing the compressed video signal and/orand audio signal in the external storage medium in real time; and

restoring the stored <u>and/orand</u> compressed video <u>and/orand</u> audio signal stored in the external storage medium, when the user requires reproduction of the digital video signal <u>and/orand</u> audio signal using the display apparatus; and

outputting the restored video signal and/orand audio signal using the display apparatus,

wherein the display apparatus is connected to the external storage medium through a port.

- 42. (Original) The method of claim 41, further comprising:
  forming a virtual file system for the external storage medium; and
  outputting management information for the external storage medium generated on the
  basis of the virtual file system, before the compression or the restoration is performed.
- 43. (Currently Amended) The method of claim 42, wherein the storing or the restoring the compressed video and/orand audio signal comprises the user requiring the storage or the reproduction of the compressed video and/orand audio signal with reference to the output management information.
- 44. (Original) The method of claim 42, wherein the forming the virtual file system is performed if an input of the user requires control of the external storage medium.
- 45. (Currently Amended) The display apparatus of claim 1, further comprising a housing which houses the receiving processor, the controller, and the output unit and which has an interface, wherein the external storage medium is external to the housing, and the controller controls the interface to transmit the received digital video signal and/orand audio signal through the interface to the external storage medium to be stored.
- 46. (Original) The display apparatus of claim 45, wherein the interface is a Universal Serial Bus (USB) interface.
- 47. (Currently Amended) The display apparatus of claim 45, further comprising an external storage device including the external storage medium and another controller which controls storage and retrieval of data including the received digital video signal and/orand audio signal with respect to the external storage medium, wherein the controller sends instructions through the interface to instruct the another controller to store the received video signal and/orand audio signal in the external storage medium.
- 48. (Currently Amended) The display apparatus of claim 45, further comprising an external storage device includes the external storage medium, wherein the controller controls the storage of the received video signal and/orand audio signal in the external storage medium through the interface.

49. (Currently Amended) A reproducing apparatus connected with a storage medium disposed external to the reproducing apparatus, the apparatus comprising:

a receiving processor that receives a digital video signal;

an output unit that outputs the digital video signal; and

a controller that transmits the received <u>digital video</u> signal from the reproducing processor to the external storage medium, stores the <u>digital video</u> signal received through the receiving processor in the external storage medium, and controls the output unit to reproduce the received <u>digital video</u> signal.

wherein the controller is connected to the storage medium through a port.

- 50. (Original) The reproducing apparatus of claim 49, wherein the controller further retrieves the stored signal from the external storage medium and controls the output unit to output the retrieved signal.
- 51. (Previously Amended) The reproducing apparatus of claim 49, wherein the controller further stores the received signal in the external storage medium as the signal is received so as to record the signal in real time.
- 52. (Original) The reproducing apparatus of claim 51, wherein the controller further outputs the received signal through the output unit in real time as the received signal is being stored.
- 53. (Original) The reproducing apparatus of claim 51, wherein the controller further retrieves the stored signal from the external storage medium and controls the output unit to output the retrieved signal.
- 54. (Original) The reproducing apparatus of claim 53, wherein the controller further outputs the received signal through the output unit in real time such that the received signal is output with the retrieved signal.
- 55. (Original) The reproducing apparatus of claim 49, further comprising a housing which houses the receiving processor, the controller, and the output unit and which has an interface, wherein the external storage medium is external to the housing and the received signal is transferred through the interface to the external storage medium to be stored.

- 56. (Previously Amended) The reproducing apparatus of claim 55, wherein the controller further controls the interface in order to transmit the received signal to be stored in the external storage medium.
- 57. (Original) The reproducing apparatus of claim 55, wherein the interface is a Universal Serial Bus (USB) interface.
- 58. (Previously Amended) The reproducing apparatus of claim 55, wherein: an external storage device includes another controller and the external storage medium, and

the controller sends instructions through the interface to instruct the another controller to store the received signal in the external storage medium.

59. (Previously Amended) The reproducing apparatus of claim 49, wherein:

the controller controls the storage of the received signal in the external storage medium.

- 60. (Original) The reproducing apparatus of claim 59, wherein the controller further creates a virtual file system so as to manage the received signal being recorded in the external storage medium.
- 61. (Previously Amended) The reproducing apparatus of claim 49, wherein the controller further generates a virtual file system so as to manage the received signal being recorded in the external storage medium.
- 62. (Original) The reproducing apparatus of claim 61, wherein the external storage medium stores additional signals, the generated virtual file system manages the stored signal and the additional signals, and the controller retrieves a selected one of the stored signal and the additional signals according to the virtual file system and controls the output unit to output the retrieved selected signal.
- 63. (Currently Amended) The reproducing apparatus of claim 60, wherein the controller further uses the generated virtual file system to retrieve the stored video and/orand audio signal to be output through the output unit.
  - 64. (Currently Amended) A controller for use in a reproducing apparatus which

receives a <u>digital video</u> signal and which is <u>in communication connected</u> with an external storage medium disposed external to the reproducing apparatus, wherein the controller controls a transmission of the received <u>digital video</u> signal to be stored in the external storage medium, controls a storage of the transmitted <u>digital video</u> signal in the external storage medium, and controls an output unit of the reproducing apparatus to reproduce the received <u>digital video</u> signal, <u>wherein the controller is connected to the external storage medium through a port</u>.

- 65. (Original) The controller of claim 64, wherein the controller further retrieves the stored signal from the external storage medium and controls the output unit to output the retrieved signal.
- 66. (Previously Amended) The controller of claim 64, wherein the controller further controls the received signal to be transmitted to and recorded in the external storage medium as the signal is received so as to record the signal in the external storage medium in real time.
- 67. (Original) The controller of claim 66, wherein the controller further controls the received signal to be output through the output unit in real time.
- 68. (Original) The controller of claim 66, wherein the controller further retrieves the stored signal from the external storage medium and controls the output unit to output the retrieved signal.
- 69. (Original) The controller of claim 68, wherein the controller further controls the received signal to be output through the output unit in real time such that the received signal is output with the retrieved signal.
- 70. (Previously Amended) The controller of claim 64, wherein the reproducing apparatus for use with the controller comprises a housing in which the controller is to be housed and has an interface, the external storage medium is external to the housing, and the controller controls the interface such that the received signal is transferred through the interface to the external storage medium to be stored.
- 71. (Original) The controller of claim 70, wherein the interface is a Universal Serial Bus (USB) interface.
  - 72. (Previously Amended) The controller of claim 70, further comprising:

an external storage device includes another controller and the external storage medium, and the controller sends instructions through the interface to instruct the another controller to store the received audio signal in the external storage medium.

73. (Previously Amended) The controller of claim 64, wherein:

the controller controls the storage of the received signal in the external storage medium.

- 74. (Previously Amended) The controller of claim 73, wherein the controller further creates a virtual file system so as to manage the received signal being recorded in the external storage medium.
- 75. (Previously Amended) The controller of claim 64, wherein the controller further generates a virtual file system so as to manage the received signal being recorded in the external storage medium.
- 76. (Original) The controller of claim 75, wherein the external storage medium stores additional signals, the generated virtual file system manages the stored signal and the additional signals, and the controller retrieves a selected one of the stored signal and the additional signals according to the virtual file system and outputs the retrieved selected signal through the output unit.
- 77. (Original) The controller of claim 75, wherein the controller further uses the generated virtual file system to retrieve the stored signal to be output through the output unit.
- 78. (Previously Amended) At least one medium comprising computer readable code to control at least one processing element in a computer to implement the method of claim 30.
- 79. (Currently Amended) At least one medium comprising computer readable code to control at least one processing element in a computer to implement the method of claim 41.
- 80. (Currently Amended) The display apparatus of claim 1, wherein the receiving processor receives the digital video signal and/orand the audio signal from an external audio/video(AV) device.
  - 81. (Currently Amended) The display apparatus of claim 1, wherein the received digital

video and/orand audio signal are stored in the external storage medium in a real time manner.

- 82. (Currently Amended) The display apparatus of claim 1, wherein the received digital video and/erand audio signal are stored directly in the external storage medium.
- 83. (Previously Amended) The display apparatus of claim 3, wherein the external storage medium is incorporated in a PDA.
- 84. (Previously Amended) The apparatus of claim 3, wherein the external storage medium is incorporated in an MP3 player.
- 85. (Previously Amended) The display apparatus of claim 3, wherein the external storage medium is incorporated in a digital video recorder.
- 86. (Previously Amended) The display apparatus of claim 3, wherein the port is a USB interface.
- 87. (Currently Amended) The display apparatus of claim 3, wherein the controller reproduces the stored digital video signal and/orand audio signal in response to a user command.
- 88. (Previously Amended) The display apparatus of claim 86, further comprising a display screen for displaying the received digital video signal and a speaker for outputting the received digital audio signal.
- 89. (Currently Amended) The method of claim 30, wherein the storing of the digital video signal and/orand the audio signal is performed in real time.
- 90. (Currently Amended) The method of claim 30, wherein the digital video signal and/orand the audio signal is in the form of a digital television broadcast signal.
- 91.( Currently Amended) The method of claim 30, wherein the digital video signal and/orand the audio signal are received from an external audio/video (AV) device.
- 92. (Currently Amended) The method of claim 30, wherein the received digital video and/orand the audio signal are stored directly in the external storage medium.

- 93. (Previously Amended) The method of claim 30, wherein the external storage medium is incorporated in an PDA.
- 94. (Previously Amended) The method of claim 30, wherein the external storage medium is incorporated in an MP3 player.
- 95. (Previously Amended) The method of claim 30, wherein the external storage medium is incorporated in a digital video recorder.
- 96. (Currently Amended) The method of claim 30, wherein the transmitting of the received digital video signal and/orand the audio signal is performed through a USB port.
- 97. (Currently Amended) The method of claim 30, further comprising the step of: reproducing the stored digital video signal and/orand audio signal in response to a user command.
  - 98. (Previously Amended) The method of claim 97, further comprising the steps of: displaying the received digital video signal on a display screen; and outputting the received digital video signal through a speaker.
- 99. (Previously Amended) The method of claim 90, further comprising the step of: forming a virtual file system for the external storage medium, wherein the external storage medium is incorporated in a PDA.
- 100. (Currently Amended) A method of operating a display apparatus capable of being connected to an external storage medium disposed external to the display apparatus, the method comprising:

reading <u>at least one of</u> a digital video signal <u>and/orand an</u> audio signal stored in the external storage medium;

receiving the digital video signal and/orand the audio signal from the external storage medium; and

reproducing the received digital video signal on a screen of the display apparatus; wherein the reading of the digital video signal and/orand audio signal is performed under a control of a controller disposed in the display apparatus; and

wherein the receiving of the digital video and/orand audio signal is performed through a digital interface disposed in the display apparatus through a port.

- 101. (Previously Amended) The method of claim 100, wherein the external storage medium is incorporated in a PDA.
- 102. (Previously Amended) The method of claim 100, wherein the external storage medium is incorporated in an MP3 player.
- 103. (Previously Amended) The method of claim 100, wherein the external storage medium is incorporated in a digital video recorder.
- 104. (Previously Amended) The method of claim 100, wherein the digital interface is a USB port.
- 105. (Currently Amended) The method of claim 100, further comprising the step of: storing another digital video signal and/orand audio signal, received from a television broadcast, in the external storage medium in response to a user command.
  - 106. (Previously Amended) The method of claim 100, further comprising the steps of: outputting the received digital audio signal through a speaker.
- 107. (Previously Amended) The method of claim 100, further comprising the step of forming a virtual file system for the external storage medium.
- 108. (Currently Amended) The method of claim 100, further comprising the step of selecting at least one of the digital video and audio signal from a list of the digital video and/orand audio signal stored in the external storage medium.
- 109. (Previously Amended) The method of claim 107, further comprising the step of generating a management information for the external storage medium using the virtual file system.